

Launch Mission Execution Forecast

Falcon 9 Starlink 4-7 Mission:

Issued: 1 Feb 2022 / 0830L (1330Z)

Valid: 2 Feb 2022 / 1641 – 1701 (2141 – 2201Z)



Forecast Discussion: A large area of high pressure over the eastern US will continue building southwards across the Florida peninsula through the remainder of the day. The tighter pressure gradient will bring an increase in onshore flow, which will continue into Wednesday along with more low level cloud cover. There will be a small chance for an Atlantic shower going into Wednesday, but the concern for the afternoon launch window remains very low. The main threat during the window will be Cumulus Clouds.

There will be little change in the pattern into Thursday, with breezy onshore flow and increasing moisture bringing a few more Atlantic showers. The threat for showers will remain low, but the increase in cloud cover will bring a corresponding increase in the threat for Cumulus Cloud Rule violations.

	Probability of Violating Weather Constraints									
Day	20%	20% Primary Concerns: Cumulus Cloud Rule								
ch	Weather Conditions							Additional Risk Criteria		
aunch	Weather/Visi	bility:	None /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low	
Ľ	Temp/Humid	ity:	70°F / 66%	Cumulus	Scattered	3,500	8,000	Booster Recovery Weather:	Low	
	Liftoff Winds	Liftoff Winds (200'): 120° 10 - 15 mph		Cirrus	Scattered	30,000	35,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints									
Delay	30% Primary Concerns: Cumulus Cloud Rule									
	Weather Conditions							Additional Risk Criteria		
0	Weather/Visibility: None / 7 mi.			Clouds			Upper-Level Wind Shear:	Low		
Ť	Weather/Visi	bility:	None / / mi.	Туре	Coverage	Base (ft)	Tops (ft)	Opper-Level Willa Offear.	LOW	
24-Hour	Weather/Visi Temp/Humid	•	73°F / 68%	Type Cumulus	Coverage Scattered	Base (ft) 3,500	Tops (ft) 10,000	Booster Recovery Weather:	Moderate	

temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.

Next Forecast Will Be Issued As Needed